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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/964,150	09/25/2001	Hugh Barrass	062891.0525	062891.0525 1755	
5073	7590 01/28/2008		EXAM	EXAMINER	
BAKER BOTTS L.L.P. 2001 ROSS AVENUE			LUGO, DAVID B		
SUITE 600 DALLAS, TX	75201-2980		ART UNIT	PAPER NUMBER	
,			2611		
	,		NOTIFICATION DATE	DEL WERV MODE	
			NOTIFICATION DATE	DELIVERY MODE	
			01/28/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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•	Application No.	Applicant(s)				
	09/964,150	BARRASS ET AL.				
Office Action Summary	Examiner	Art Unit				
	David B. Lugo	2611				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>09 N</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) Claim(s) 1-14 and 22-30 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 1-14 and 25-30 is/are allowed. 6) Claim(s) 22-24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	»П., 	(070, 440)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:	ate				

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments, see page 7, filed 11/9/07, with respect to claims 1-14 have been fully considered and are persuasive. The rejection of claims 1-14 has been withdrawn.
- 2. Applicant's arguments filed 11/9/07, with respect to claim 22, have been fully considered but they are not persuasive.
- 3. Applicant has amended claim 22 to recite that the plurality of second PSDs "do not comply with a public standard" and argues that Graziano discloses that the second PSDs comply with a public standard, namely G.SHDSL and HDSL.2. However, from a plain reading of the claim language, "a public standard" refers to *one* public standard, the particular *one* public standard not being specified in the claim. Accordingly, the second PSDs of Graziano meet the amended claim limitation when "a public standard" that the plurality of second PSDs "do[es] not comply with" is considered an ADSL standard, or some other standard which is not one of G.SHDSL and HDSL.2. Accordingly, the amendment to claim 22 fails to overcome the prior art of record. Newly added claims 23-30 are further considered below.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Graziano et al. in view of Baker et al. U.S. Patent 2002/0172273.

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Regarding claim 22, Graziano discloses a system for choosing a PSD according to line conditions, the system including a data switch (DSLAM) (see para. 352), where Graziano states that the power spectral density (PSD) of the transmitted signal is programmable and supports different defined PSDs (para. 347), PSDs are stored as sets of coefficients (para. 246), said stored PSDs complying with public standards (para. 10), and where one of the stored PSDs is chosen for specific line conditions in communication with the one or more CPE devices (para. 245-248).

Graziano does not expressly disclose that the data switch is operable to communicate substantially simultaneously with two or more CPE devices using at least two different PSDs. However, a DSLAM communicating with two or more CPE devices is well known in the art. Further, Graziano discloses being able to communicate with a CPE using a PSD chosen for that specific CPE (see abstract, para. 5). Accordingly, it would have been obvious to one of ordinary skill in the art to implement the teaching of selecting one of a plurality of PSDs for each of a number of CPEs in order to provide communication to a plurality of users using optimally selected PSDs. In addition, the second PSDs do not comply with ADSL standard G.992.1, which is a public standard not complied with by the second PSDs.

Further, Graziano does not expressly disclose that the data switch is operable to automatically communicate using a PSD defined by a network administrator. Baker discloses that DSLAMs are often programmed by system administrators (para. 3). It would have been obvious to one of ordinary skill in the art to use a PSD defined by a system administrator to establish communication between the DSLAM and the CPE because the administrator will establish parameters including a PSD which will ensure initialization of communication.

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Regarding claim 23, one of ordinary skill in the art would recognize that the switch in the

combination of Graziano with Baker is operable to direct a CPE device to communicate with the

switch using a particular PSD.

Regarding claim 24, the use of control packets with associated information is well known

in the art. It would have been obvious to one of ordinary skill in the art to use control packets to

allow the switch to direct the CPE device and provide parameters defining one or more of the

characteristics of the particular PSD to be used to the CPE device in order to enable

communication using the selected PSD.

Allowable Subject Matter

6. Claims 1-14 and 25-30 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to David B. Lugo whose telephone number is 571-272-3043. The

examiner can normally be reached on M-F; 9:30-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Shuwang Liu can be reached on 571-272-3066. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DAVID B. LUGO
PRIMARY PATENT EXAMINER

1/21/08